

**LIST OF CURRENT CLAIMS**

Claims 1-22(canceled).

Claim 23(new). A wound care membrane comprising S-sulfonated keratin reacted with reducing agent to introduce disulfide crosslinking and improve wet strength.

Claim 24(new). The wound care membrane of claim 23 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein and the reducing agent is a thioglycollate.

Claim 25(new). A wound care hydrogel comprising S-sulfonated keratin in admixture with hydrogen bonding providing water soluble polymer crosslinked with an amount of protein crosslinking agent to provide increased dimensional stability.

Claim 26(new). The wound care hydrogel of claim 25 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein, the water soluble polymer is selected from the group consisting of polyvinyl alcohol and polyvinyl pyrrolidone and mixtures thereof, and the protein crosslinking agent is selected from the group consisting of glutaraldehyde, formaldehyde, carbodiimide, 2,5-hexanedione, diimide, bisacrylamide and mixtures thereof.

Claim 27(new). The wound care hydrogel of claim 26 where the protein crosslinking agent comprises glutaraldehyde.

Claim 28(new). A wound care hydrogel comprising S-sulfonated keratin in admixture with hydrogen bonding providing water soluble polymer

Claim 29(new). The wound care hydrogel of claim 28 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein and the water soluble polymer is selected from the group consisting of polyvinyl alcohol and polyvinyl pyrrolidone and mixtures thereof.

Claim 30(new). A method for treating a wound comprising applying to a wound site a wound care membrane according to claim 23.

Claim 31(new). A method for treating a wound comprising applying to a wound site a wound care membrane according to claim 24.

Claim 32(new). A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 25.

Claim 33(new). A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 26.

Claim 34(new). A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 27.

Claim 35(new). A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 28.

Claim 36(new). A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 29.